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1 Data base directions: the next steps

John L. Berg

November 1976 , Volume 8 , 8 Issue 4 , 2

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Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

2 Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

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3 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

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4 Research sessions: potpourri: Mining database structure; or, how to build a data quality brow

Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management o data**

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, index terms

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent i data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools ha been developed to help automate the task of using legacy or federated data sources for a n ...

5 NoDoSE—a tool for semi-automatically extracting structured and semistructured data from te documents

Brad Adelberg

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international confer on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms

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Michael Stonebraker

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international confer on Management of data**, Volume 20 Issue 2

Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings, index terms

7 Integrating GPS data within embedded Internet GIS

Arunas Stockus, Alain Bouju, Frédéric Bertrand, Patrice Boursier

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geograp information systems**

Full text available: pdf(166.27 KB) Additional Information: full citation, references, citings, index terms

Keywords: GPS, embedded GIS, mobile system, spatial data integration

8 Interconnecting heterogeneous computer systems

David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan

March 1988 **Communications of the ACM**, Volume 31 Issue 3

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

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9 An Integrated Web-based Grid-Computing Environment for Research and Education in Computational Science and Engineering

Thanh N. Truong

April 2004 **Proceedings of the 37th annual symposium on Simulation**

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We present the development of an integratedextendable web-based simulation environment calledComputational Science and Engineering On-line (CSEO)that allows computational scientists to

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Weiyi Meng, Clement Yu, King-Lup Liu

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(416.07 KB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: Collection fusion, distributed collection, distributed information retrieval, information resource discovery, metasearch

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Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

5 InterViso: dealing with the complexity of federated database access
Marjorie Templeton, Herbert Henley, Edward Maros, Darrel J. Van Buer
April 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 2
Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings

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Keywords: data warehouse, database integration, federated database

6 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems
M. L. Kherfi, D. Ziou, A. Bernardi
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1
Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

7 The model, language, and implementation of an object-oriented multimedia knowledge base management system
Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane
March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1
Full text available: pdf(3.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-establis ...

8 A critique of the SQL database language
C. J. Date
November 1984 **ACM SIGMOD Record**, Volume 14 Issue 3

Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references

The ANS Database Committee (X3H2) is currently at work on a proposed standard relational database language (RDL), and has adopted as a basis for that activity a definition of the "structured query language" SQL from IBM [10]. Moreover, numerous hardware and software vendors (in addition to IBM) have already released or at least announced products that are based to a greater or lesser extent on the SQL language as defined by IBM. There can thus be little doubt that the importance of that language ...

9 Dissertation Abstracts in Computer Graphics
January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

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10 Greenstone: a comprehensive open-source digital library software system
Ian H. Witten, Stefan J. Boddie, David Bainbridge, Rodger J. McNab
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Full text available: pdf(303.96 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the Greenstone digital library software, a comprehensive, open-source system for the construction and presentation of information collections. Collections built with Greenstone offer effective full-text searching and metadata-based browsing facilities that are attractive and easy to use. Moreover, they are easily maintainable and can be augmented and rebuilt entirely automatically. The system is extensible: software "plugins" accommodate different document and me ...

11 Chimera: hypermedia for heterogeneous software development enviroments
Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead
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Full text available: pdf(864.32 KB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

12 A storage and access manager for ill-structured data
Jeffrey Kottemann, Michael Gordon, Jack Stott
August 1991 **Communications of the ACM**, Volume 34 Issue 8

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, index terms, review

Database management systems are powerful tools for processing large volumes of

structured, or normalized, data. Much of the data to be stored in computer systems, however, differs from normalized data in both its logical uses and the storage structure required for its effective management. For instance, Van Rijsbergen (1979) distinguishes database retrieval from information retrieval (IR)—the retrieval of references to text—by c ...

13 Tools for building digital libraries: Assembling and enriching digital library collections
David Bainbridge, John Thompson, Ian H. Witten
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(576.57 KB) Additional Information: full citation, abstract, references, citings, index terms

People who create digital libraries need to gather together the raw material, add metadata as necessary, and design and build new collections. This paper sets out the requirements for these tasks and describes a new tool that supports them interactively, making it easy for users to create their own collections from electronic files of all types. The process involves selecting documents for inclusion, coming up with a suitable metadata set, assigning metadata to each document or group of document ...

14 Mu3D: a causal consistency protocol for a collaborative VRML editor
Ricardo Galli, Yuhua Luo
February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

Full text available: pdf(614.28 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the implementation of the Mu3D application protocol and consistency control mechanisms to allow the collaborative editing of CAD design. The collaborative editor (M3D editor) developed by us is VRML compliant. The editor has been used as a base for the European Esprit project No. 26287 - M3D and the Spanish project TEL 96-0544/CODI for Cooperative CAD applications.In our system, only the changes to local databases are transmitted to other collaborative sessio ...

Keywords: CAD, VRML, architecture, distributed virtual environments, multicasting

15 Interconnecting heterogeneous computer systems
David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan
March 1988 **Communications of the ACM**, Volume 31 Issue 3

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

A software structure created by the Heterogeneous Computer Systems (HCS) Project at the University of Washington was designed to address the problems of heterogeneity that typically arise in research computing environments.

16 Customizing information capture and access
Daniela Rus, Devika Subramanian
January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured

as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

17 Special section on semantic integration: Ontologies and semantics for seamless connectivity



Michael Uschold, Michael Gruninger
December 2004 **ACM SIGMOD Record**, Volume 33 Issue 4

Full text available: pdf(311.23 KB) Additional Information: full citation, abstract, references

The goal of having networks of seamlessly connected people, software agents and IT systems remains elusive. Early integration efforts focused on connectivity at the physical and syntactic layers. Great strides were made; there are many commercial tools available, for example to assist with enterprise application integration. It is now recognized that physical and syntactic connectivity is not adequate. A variety of research systems have been developed addressing some of the semantic issues. In t ...

18 A case study: demands on component-based development



Ivica Crnkovic, Magnus Larsson
June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available: pdf(141.06 KB) Additional Information: full citation, abstract, references, index terms

Building software systems with reusable components brings many advantages. The development becomes more efficient, the realibility of the products is enhanced, and the maintenance requirement is significantly reduced. Designing, developing and maintaining components for reuse is, however, a very complex process which places high requirements not only for the component functionality and flexibility, but also for the development organization. In this paper we discuss the different levels of c ...

Keywords: architecture, component-based development, development environment, reuse, standard components

19 XML: not a silver bullet, but a great pipe wrench



Tommie Usdin, Tony Graham
September 1998 **StandardView**, Volume 6 Issue 3

Full text available: pdf(86.79 KB) Additional Information: full citation, index terms, review

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November 1976 , Volume 8 , 8 Issue 4 , 2

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3 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser

Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk

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Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings

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Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

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C. J. Date
November 1984 **ACM SIGMOD Record**, Volume 14 Issue 3
Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references

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8 Protection traps and alternatives for memory management of an object-oriented language

Antony L. Hosking, J. Eliot B. Moss

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

Many operating systems allow user programs to specify the protection level (inaccessible, read-only, read-write) of pages in their virtual memory address space, and to handle any protection violations that may occur. Such page-protection techniques have been exploited by several user-level algorithms for applications including generational garbage collection and persistent stores. Unfortunately, modern hardware has made efficient handling of page protection faults more difficult. Moreover, page- ...

9 The model, language, and implementation of an object-oriented multimedia knowledge base management system

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1

Full text available: pdf(3.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-establis ...

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12 NoDoSE—a tool for semi-automatically extracting structured and semistructured data from text documents

Brad Adelberg

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

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13 Markup systems and the future of scholarly text processing
James H. Coombs, Allen H. Renear, Steven J. DeRose
November 1987 **Communications of the ACM**, Volume 30 Issue 11

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Markup practices can affect the move toward systems that support scholars in the process of thinking and writing. Whereas procedural and presentational markup systems retard that movement, descriptive markup systems accelerate the pace by simplifying mechanical tasks and allowing the authors to focus their attention on the content.



14 Document Formatting Systems: Survey, Concepts, and Issues
Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(5.36 MB) Additional Information: full citation, references, citings, index terms



15 Greenstone: a comprehensive open-source digital library software system
Ian H. Witten, Stefan J. Boddie, David Bainbridge, Rodger J. McNab
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16 Session 1: Generation of VRML city models for focus based tour animations: integration, modeling and presentation of heterogeneous geo-data sources
Arne Schilling, Alexander Zipf
March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available: pdf(7.45 MB) Additional Information: full citation, abstract, references, citings

In order to generate 3D worlds in an automated way it is important to solve the problem of integrating existing 2D and 3D data automatically. We explain some of the issues of this problem in this paper. We also introduce mechanisms for automated generation of integrated 3D geo-data sets, as well as a prototype that implements these. It is necessary to distinguish the different problems and methods for the generation of buildings and other man made structures on the one hand and digital elevation ...

Keywords: 3D, focus based 3D generation, geo-data integration, geographical information systems, multi-resolution DEM, tourist domain

17 Chimera: hypermedia for heterogeneous software development enviroments
Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead
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Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

18 A storage and access manager for ill-structured data
Jeffrey Kottemann, Michael Gordon, Jack Stott
August 1991 **Communications of the ACM**, Volume 34 Issue 8

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, index terms, review

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December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Full text available: pdf(470.03 KB) Additional Information: full citation, abstract, references, citings, index terms

The paper presents results of a research project that has aimed at developing a knowledge management architecture for mobile work domains. The architecture developed, called FieldWise, was based on fieldwork in two organisations and feedback from users of prototype systems. This paper describes the empirically grounded requirements of FieldWise, how these have been realised in the architecture, and how the architecture has been implemented in the news journalism domain. FieldWise adds to th ...

Keywords: hand-held devices, knowledge management, mobile CSCW, organisational memory

20 Dissertation Abstracts in Computer Graphics
January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB) Additional Information: full citation

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21 Indexing and retrieval of scientific literature

Steve Lawrence, Kurt Bollacker, C. Lee Giles

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available: pdf(985.22 KB) Additional Information: full citation, abstract, references, citings, index terms

The web has greatly improved access to scientific literature. However, scientific articles on the web are largely disorganized, with research articles being spread across archive sites, institution sites, journal sites, and researcher homepages. No index covers all of the available literature, and the major web search engines typically do not index the content of Postscript/PDF documents at all. This paper discusses the creation of digital libraries of scientific literature on the web, incl ...

22 Integrating GPS data within embedded Internet GIS

Arunas Stockus, Alain Bouju, Frédéric Bertrand, Patrice Boursier

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Full text available: pdf(166.27 KB) Additional Information: full citation, references, citings, index terms

Keywords: GPS, embedded GIS, mobile system, spatial data integration

23 Embedded software automation: from specification to binary: Retargetable binary utilities

Maghsoud Abbaspour, Jianwen Zhu

June 2002 **Proceedings of the 39th conference on Design automation**

Full text available: pdf(100.21 KB) Additional Information: full citation, abstract, references, citings, index terms

Since software is playing an increasingly important role in system-on-chip, retargetable compilation has been an active research area in the last few years. However, the retargetting of equally important downstream system tools, such as assemblers, linkers and debuggers, has either been ignored, or falls short of meeting the requirements of modern programming languages and operating systems. In this paper, we present techniques that can automatically retarget the GNU binutils tool kit, which con ...

24 P1: "Yes, but does it scale?": practical considerations for database-driven information systems

John Russell

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available: pdf(231.31 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using real-life examples, it discusses practical considerations for balancing performance, scalability, and reliability.

Keywords: Oracle, automation, categorization, database, performance, reliability, scalability, web services

25 A protein patent query system powered by Kleisli

Jing Chen, Limsoon Wong, Louxin Zhang

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(502.96 KB) Additional Information: full citation, references, citings, index terms

26 Tools for building digital libraries: Assembling and enriching digital library collections

David Bainbridge, John Thompson, Ian H. Witten

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(576.57 KB) Additional Information: full citation, abstract, references, citings, index terms

People who create digital libraries need to gather together the raw material, add metadata as necessary, and design and build new collections. This paper sets out the requirements for these tasks and describes a new tool that supports them interactively, making it easy for users to create their own collections from electronic files of all types. The process involves selecting documents for inclusion, coming up with a suitable metadata set, assigning metadata to each document or group of document ...

27 Mu3D: a causal consistency protocol for a collaborative VRML editor

Ricardo Galli, Yuhua Luo

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

Full text available: pdf(614.28 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the implementation of the Mu3D application protocol and consistency control mechanisms to allow the collaborative editing of CAD design. The collaborative editor (M3D editor) developed by us is VRML compliant. The editor has been used as a base for the European Esprit project No. 26287 - M3D and the Spanish project TEL 96-0544/CODI for Cooperative CAD applications.In our system, only the changes to local databases are transmitted to other collaborative sessio ...

Keywords: CAD, VRML, architecture, distributed virtual environments, multicasting

28 Special section on sensor network technology & sensor data management (part II): An

initial study of overheads of eddies
Amol Deshpande
March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1

Full text available: pdf(95.53 KB) Additional Information: full citation, abstract, references

An eddy [2] is a highly adaptive query processing operator that continuously reoptimizes a query in response to changing runtime conditions. It does this by treating query processing as *routing* of tuples through *operators* and making per-tuple routing decisions. The benefits of such adaptivity can be significant, especially in highly dynamic environments such as data streams, sensor query processing, web querying, etc. Various parties have asserted that the cost of making per-tuple ...

29 Structured programming using processes
Jay Nelson
September 2004 **Proceedings of the 2004 ACM SIGPLAN workshop on Erlang**

Full text available: pdf(116.57 KB) Additional Information: full citation, abstract, references, index terms

Structured Programming techniques are applied to a personal accounting software application implemented in erlang as a demonstration of the utility of processes as design constructs. Techniques for enforcing strong encapsulation, partitioning for fault isolation and data flow instrumentation, reusing code, abstracting and adapting interfaces, simulating inputs, managing and distributing resources and creating complex application behavior are described. The concept of *inductive decomposition*
Keywords: *COPL, concurrency oriented programming language, erlang, inductive decomposition*

30 Transformations and Experiences: VXT: a visual approach to XML transformations
Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent Quint
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available: pdf(165.99 KB) Additional Information: full citation, abstract, references, citings, index terms

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations are textual languages, such as XSLT or DOM combined with a general-purpose programming language. Several tools build on top of these languages, providing a graphical environment. Transformations are however still specified in a textual way using ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoomable user interfaces

31 Next-generation generic programming and its application to sparse matrix computations
Nikolay Mateev, Keshav Pingali, Paul Stodghill, Vladimir Kotlyar
May 2000 **Proceedings of the 14th international conference on Supercomputing**

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings, index terms

The contributions of this paper are the following.We introduce a new variety of generic programming in which algorithm implementors use a different API than data structure designers, the gap between the API's being bridged by restructuring compilers. One view of this approach is that it exploits restructuring compiler technology to perform a novel kind of template instantiation.We demonstrate the usefulness of this new generic programming

technology ...

32 Interconnecting heterogeneous computer systems
David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan
March 1988 **Communications of the ACM**, Volume 31 Issue 3

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

A software structure created by the Heterogeneous Computer Systems (HCS) Project at the University of Washington was designed to address the problems of heterogeneity that typically arise in research computing environments.

33 Multimodal interfaces for dynamic interactive maps
Sharon Oviatt
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Full text available: pdf(1.36 MB) html(45.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic interactive maps, multimodal interface design, predictive modeling, robust processing, spoken, pen-based, and multimodal input

34 Linux Print System at Cisco Systems, Inc.
Damian Ivereigh
October 1998 **Linux Journal**

Full text available: html(40.10 KB) Additional Information: full citation, abstract, index terms

Cisco runs a redundant system of 50 print servers using Linux, Samba and Netatalk. It prints to approximately 1,600 printers worldwide, serving 10,000 UNIX and Windows 95 users, some of whom are in mission-critical environments

35 Extensible file system (ELFS): an object-oriented approach to high performance file I/O
John F. Karpovich, Andrew S. Grimshaw, James C. French
October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms

Scientific applications often manipulate very large sets of persistent data. Over the past decade, advances in disk storage device performance have consistently been outpaced by advances in the performance of the rest of the computer system. As a result, many scientific applications have become I/O-bound, i.e. their run-times are dominated by the time spent performing I/O operations. Consequently, the performance of I/O operations has become critical for high performance in these applicatio ...

36 Issues in implementing a real time embedded Data Base Management System in Ada
David Bunting, Leonard Bass
March 1986 **Proceedings of the third annual Washington Ada symposium on Ada: Ada use in focus : practical lessons in perspective**

Full text available: pdf(901.52 KB) Additional Information: full citation, references

37 An extended transformation approach to inductive logic programming
Nada Lavrač, Peter A. Flach
October 2001 **ACM Transactions on Computational Logic (TOCL)**, Volume 2 Issue 4

Full text available: pdf(309.37 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Inductive logic programming (ILP) is concerned with learning relational descriptions that typically have the form of logic programs. In a transformation approach, an ILP task is transformed into an equivalent learning task in a different representation formalism. Propositionalization is a particular transformation method, in which the ILP task is compiled to an attribute-value learning task. The main restriction of propositionalization methods such as LINUS is that they are unable to deal w ...

Keywords: data mining, inductive logic programming, machine learning, relational databases

38 Compiling document collections from the Internet
V. Kluev
May 2001 **ACM SIGIR Forum**, Volume 34 Issue 2

Full text available: pdf(684.24 KB) Additional Information: full citation, abstract, citings, index terms

Presently domain specific search engines are becoming popular because they offer greater accuracy, when compared to general purpose search engines. In this study, a method for collecting domain specific documents from the net was developed for the purpose of improving search results. The main thrust of our approach is to use several metrics to estimate the relevance of every automatically discovered document by a crawler regarding a topic of interest. This type of search resulted in two importan ...

Keywords: data collection, relevance information, search context, search engine

39 Animation: Building a virtual factory
Jochen Manfred Quick, Chao Zhu, Haibin Wang, Meehae Song, Wolfgang Müller-Wittig
June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia**

Full text available: pdf(332.18 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe a visualisation system which helps simulation experts transform discrete simulation models and results into animated scenes in a virtual environment. The system aims to significantly reduce production costs and error sources during the generation process of visualisations. The means to achieve these goals are the development of a framework for the translation of simulation results into animations, reuse of animation elements, and the implementation of customization too ...

Keywords: animation, simulation, virtual factory, visualisation

40 Customizing information capture and access
Daniela Rus, Devika Subramanian
January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to

exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

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Relevance scale

41 An extensible compressor for XML data
Hartmut Liefke, Dan Suciu
March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1
Full text available: pdf(574.51 KB) Additional Information: full citation, citings, index terms

42 An Approach to Preserving Sufficient Correctness in Open Resource Coalitions
Orna Raz, Mary Shaw
November 2000 **Proceedings of the 10th International Workshop on Software Specification and Design**
Full text available: pdf(359.58 KB) Publisher Site Additional Information: full citation, abstract

Most software that most people use most of the time needs only moderate assurance of fitness for its intended purpose. Unlike high-assurance software, where the severe consequences of failure justify substantial investment in validation, everyday software is used in settings in which occasional degraded service or even failure is tolerable. Unlike high-assurance software, which has been the subject of extensive scrutiny, everyday software has received only meager attention concerning how good it ...

Keywords: Medium-assurance software, everyday software, fitness for task, fault tolerance, open resource coalitions, sufficient correctness, software homeostasis, distributed component-based software

43 Special section on semantic integration: Ontologies and semantics for seamless connectivity
Michael Uschold, Michael Gruninger
December 2004 **ACM SIGMOD Record**, Volume 33 Issue 4
Full text available: pdf(311.23 KB) Additional Information: full citation, abstract, references

The goal of having networks of seamlessly connected people, software agents and IT systems remains elusive. Early integration efforts focused on connectivity at the physical and syntactic layers. Great strides were made; there are many commercial tools available, for example to assist with enterprise application integration. It is now recognized that physical and syntactic connectivity is not adequate. A variety of research systems have been

developed addressing some of the semantic issues. In t ...

44 A case study: demands on component-based development
Ivica Crnkovic, Magnus Larsson
June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available: pdf(141.06 KB) Additional Information: full citation, abstract, references, index terms

Building software systems with reusable components brings many advantages. The development becomes more efficient, the realibility of the products is enhanced, and the maintenance requirement is significantly reduced. Designing, developing and maintaining components for reuse is, however, a very complex process which places high requirements not only for the component functionality and flexibility, but also for the development organization. In this paper we discuss the different levels of c ...

Keywords: architecture, component-based development, development environment, reuse, standard components

45 An Integrated Web-based Grid-Computing Environment for Research and Education in Computational Science and Engineering
Thanh N. Truong
April 2004 **Proceedings of the 37th annual symposium on Simulation**

Full text available: pdf(287.40 KB) Publisher Site Additional Information: full citation, abstract

We present the development of an integratedextendable web-based simulation environment calledComputational Science and Engineering On-line (CSEO)that allows computational scientists to perform researchusing state-of-the-art tools, querying data from personalor public databases, discuss results with colleagues, andaccess resources beyond those available locally from aweb browser. It is a user-driven web-based applicationtool. Currently, CSEO provides an integratedenvironment for multi-scale model ...

46 Autonomous citation matching
Steve Lawrence, C. Lee Giles, Kurt D. Bollacker
April 1999 **Proceedings of the third annual conference on Autonomous Agents**

Full text available: pdf(267.29 KB) Additional Information: full citation, references, citings, index terms

47 XML: not a silver bullet, but a great pipe wrench
Tommie Usdin, Tony Graham
September 1998 **StandardView**, Volume 6 Issue 3

Full text available: pdf(86.79 KB) Additional Information: full citation, index terms, review

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Relevance scale

1 Virtual extension: Data warehousing in environmental digital libraries
Richard D. Holowczak, Nabil R. Adam, Francisco J. Artigas, Irfan Bora
September 2003 **Communications of the ACM**, Volume 46 Issue 9
Full text available: pdf(185.95 KB) Additional Information: full citation, references, index terms

2 Surveys: Integration of biological sources: current systems and challenges ahead
Thomas Hernandez, Subbarao Kambhampati
September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3
Full text available: pdf(78.41 KB) Additional Information: full citation, abstract, references

This paper surveys the area of biological and genomic sources integration, which has recently become a major focus of the data integration research field. The challenges that an integration system for biological sources must face are due to several factors such as the variety and amount of data available, the representational heterogeneity of the data in the different sources, and the autonomy and differing capabilities of the sources.

This survey describes the main integration approac ...

3 Compiling document collections from the Internet
V. Kluev
May 2001 **ACM SIGIR Forum**, Volume 34 Issue 2
Full text available: pdf(684.24 KB) Additional Information: full citation, abstract, citings, index terms

Presently domain specific search engines are becoming popular because they offer greater accuracy, when compared to general purpose search engines. In this study, a method for collecting domain specific documents from the net was developed for the purpose of improving search results. The main thrust of our approach is to use several metrics to estimate the relevance of every automatically discovered document by a crawler regarding a topic of interest. This type of search resulted in two importan ...

Keywords: data collection, relevance information, search context, search engine

4 Building efficient and effective metasearch engines
Weiyi Meng, Clement Yu, King-Lup Liu

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(416.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Frequently a user's information needs are stored in the databases of multiple search engines. It is inconvenient and inefficient for an ordinary user to invoke multiple search engines and identify useful documents from the returned results. To support unified access to multiple search engines, a metasearch engine can be constructed. When a metasearch engine receives a query from a user, it invokes the underlying search engines to retrieve useful information for the user. Metasearch engines have ...

Keywords: Collection fusion, distributed collection, distributed information retrieval, information resource discovery, metasearch

5 InterViso: dealing with the complexity of federated database access

Marjorie Templeton, Herbert Henley, Edward Maros, Darrel J. Van Buer

April 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 2

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings

Connectivity products are finally available to provide the "highways" between computers containing data. IBM has provided strong validation of the concept with their "Information Warehouse." DBMS vendors are providing gateways into their products, and SQL is being retrofitted on many older DBMSs to make it easier to access data from standard 4GL products and application development systems. The next step needed for data integration is to provide (1) a common data dictionary with a conceptual sch ...

Keywords: data warehouse, database integration, federated database

6 Database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik

September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3

Full text available: pdf(1.23 MB) Additional Information: full citation, citings, index terms

7 Strategic directions in database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available: pdf(222.64 KB) Additional Information: full citation, references, citings, index terms

8 EIU's ViewsWire: new wine in a new bottle

Peter Lovelock, Ali F. Farhoomand

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available: pdf(516.64 KB) Additional Information: full citation, references, index terms

9 Data base directions: the next steps

John L. Berg

November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available: pdf(9.95 MB) Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

10 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser

Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, index terms

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability of the analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent in data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools have been developed to help automate the task of using legacy or federated data sources for a n ...

11 OLH: an on-line help facility for managing multiple document types in their native formats in a distributed environment

Kevin M. Cunningham

October 1991 **Proceedings of the 9th annual international conference on Systems documentation**

Full text available: pdf(912.89 KB) Additional Information: full citation, citings, index terms

12 Markup systems and the future of scholarly text processing

James H. Coombs, Allen H. Renear, Steven J. DeRose

November 1987 **Communications of the ACM**, Volume 30 Issue 11

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Markup practices can affect the move toward systems that support scholars in the process of thinking and writing. Whereas procedural and presentational markup systems retard that movement, descriptive markup systems accelerate the pace by simplifying mechanical tasks and allowing the authors to focus their attention on the content.

13 Creating a massive master index for HTML and print

Dan Scott, Ronnie Seagren

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available: pdf(282.66 KB) Additional Information: full citation, abstract, references, index terms

An index connects readers with information. Creating an index for a single book is a time-honored craft. Creating an index for a massive library of HTML topics is a modern craft that has largely been discarded in favor of robust search engines. The authors show how they

optimized a single-sourced index for collections of HTML topics, printed books, and PDF books. With examples from a recent index of 24,000 entries for 7,000 distinct HTML topics also published as 40 different PDF books, the autho ...

Keywords: indexing, information retrieval methods, navigation, online information, search

14 A mediation infrastructure for digital library services
Sergey Melnik, Hector Garcia-Molina, Andreas Paepcke
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: pdf(155.30 KB) Additional Information: full citation, abstract, references, index terms

Digital library mediators allow interoperation between diverse information services. In this paper we describe a flexible and dynamic mediator infrastructure that allows mediators to be composed from a set of modules (``blades''). Each module implements a particular mediation function, such as protocol translation, query translation, or result merging. All the information used by the mediator, including the mediator logic itself, is represented by an RDF graph.We i ...

Keywords: component design, interoperability, mediator, wrapper

15 Greenstone: a comprehensive open-source digital library software system
Ian H. Witten, Stefan J. Boddie, David Bainbridge, Rodger J. McNab
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: pdf(303.96 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the Greenstone digital library software, a comprehensive, open-source system for the construction and presentation of information collections. Collections built with Greenstone offer effective full-text searching and metadata-based browsing facilities that are attractive and easy to use. Moreover, they are easily maintainable and can be augmented and rebuilt entirely automatically. The system is extensible: software "plugins" accommodate different document and me ...

16 Evaluation of model-based retrieval effectiveness with OCR text
Kazem Taghva, Julie Borsack, Allen Condit
January 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 1

Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, index terms, review

We give a comprehensive report on our experiments with retrieval from OCR-generated text using systems based on standard models of retrieval. More specifically, we show that average precision and recall is not affected by OCR errors across systems for several collections. The collections used in these experiments include both actual OCR-generated text and standard information retrieval collections corrupted through the simulation of OCR errors. Both the actual and simulation experiments inc ...

Keywords: error correction, feedback, optical character recognition, ranking algorithms

17 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems
M. L. Kherfi, D. Ziou, A. Bernardi
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

18 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

19 Session 1: Generation of VRML city models for focus based tour animations: integration, modeling and presentation of heterogeneous geo-data sources

Arne Schilling, Alexander Zipf

March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available: pdf(7.45 MB) Additional Information: full citation, abstract, references, citings

In order to generate 3D worlds in an automated way it is important to solve the problem of integrating existing 2D and 3D data automatically. We explain some of the issues of this problem in this paper. We also introduce mechanisms for automated generation of integrated 3D geo-data sets, as well as a prototype that implements these. It is necessary to distinguish the different problems and methods for the generation of buildings and other man made structures on the one hand and digital elevation ...

Keywords: 3D, focus based 3D generation, geo-data integration, geographical information systems, multi-resolution DEM, tourist domain

20 A critique of the SQL database language

C. J. Date

November 1984 **ACM SIGMOD Record**, Volume 14 Issue 3

Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references

The ANS Database Committee (X3H2) is currently at work on a proposed standard relational database language (RDL), and has adopted as a basis for that activity a definition of the "structured query language" SQL from IBM [10]. Moreover, numerous hardware and software vendors (in addition to IBM) have already released or at least announced products that are based to a greater or lesser extent on the SQL language as defined by IBM. There can thus be little doubt that the importance of that language ...

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21 Enterprise data management in research organizations: *data the way you want it*
M. Brian Blake
October 2003 **Proceedings of the 2003 conference on Diversity in computing**
Full text available: pdf(321.91 KB) Additional Information: full citation, abstract, references, index terms, review

Raw data and processed information are essential to organizations that perform operational analysis and build simulation systems. In such domains, the dissemination and management of this information is a daunting task. Not only must this data support a heterogeneous array of researchers, but also the requirements on this data are constantly changing. To achieve maximum utility, data of this sort must be made available in distributed locations and offered in various custom formats. Such approach ...

Keywords: XML, XSLT, semi-structured data, web-accessible databases

22 Applications thrive on open systems standards
Eric J. Strand, Rajiv P. Mehta, Raju Jairam
September 1994 **StandardView**, Volume 2 Issue 3
Full text available: pdf(890.71 KB) Additional Information: full citation, citings, index terms

23 A graphical, extensible integrated environment for software development
Anthony I Wasserman, Peter A Pircher
January 1987 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 22 Issue 1
Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, citings, index terms

Analysis and design are the essential first phases in most software development projects, yet most automated support environments are aimed at the programming phase. This paper describes a workstation-based environment that provides an integrated ensemble of graphical tools for analysis and design coupled to a project database, along with mechanisms for producing declarations, code skeletons, and executable programs. The environment is built on an "open architecture," in which i ...

24 OGDI: toward interoperability among geospatial databases
Gilles Clément, Christian Larouche, Denis Gouin, Paul Morin, Henry Kucera
September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3

Full text available: pdf(465.15 KB) Additional Information: full citation, abstract, index terms

The growth of the geomatics industry is stunted by the difficulty of obtaining and transforming suitable spatial data. This paper describes a remedy: the Open Geospatial Datastore Interface (OGDI), which permits application software to access a variety of spatial data products. The discussion compares the OGDI approach to other standards efforts and describes the characteristics and use of OGDI, which is in the public domain.

25 Integrating GPS data within embedded Internet GIS
Arunas Stockus, Alain Bouju, Frédéric Bertrand, Patrice Boursier
November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Full text available: pdf(166.27 KB) Additional Information: full citation, references, citings, index terms

Keywords: GPS, embedded GIS, mobile system, spatial data integration

26 Large-scale resources: A feature-based model for lexical databases
Jean Véronis, Nancy Ide
August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 2**

Full text available: pdf(469.12 KB) Additional Information: full citation, abstract, references

To date, no fully suitable data model for lexical databases has been proposed. As lexical databases have proliferated in multiple formats, there has been growing concern over the reusability of lexical resources. In this paper, we propose a model based on feature structures which overcomes most of the problems inherent in classical database models, and in particular enables accessing, manipulating or merging information structured in multiple ways. Because of their widespread use in the represen ...

27 Secure and selective dissemination of XML documents
Elisa Bertino, Elena Ferrari
August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Full text available: pdf(678.34 KB) Additional Information: full citation, abstract, references, citings, index terms

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

28 CHIMP: a framework for supporting distributed multimedia document authoring and presentation
K. Selçuk Candan, B. Prabhakaran, V. S. Subrahmanian
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

Keywords: buffer and throughput requirements, multimedia authoring, multimedia object retrieval, multimedia presentation, presentation schedules, temporal constraints

29 Protection traps and alternatives for memory management of an object-oriented language

Antony L. Hosking, J. Eliot B. Moss

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

Many operating systems allow user programs to specify the protection level (inaccessible, read-only, read-write) of pages in their virtual memory address space, and to handle any protection violations that may occur. Such page-protection techniques have been exploited by several user-level algorithms for applications including generational garbage collection and persistent stores. Unfortunately, modern hardware has made efficient handling of page protection faults more difficult. Moreover, page- ...

30 P1: "Yes, but does it scale?": practical considerations for database-driven information systems

John Russell

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available: pdf(231.31 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using real-life examples, it discusses practical considerations for balancing performance, scalability, and reliability.

Keywords: Oracle, automation, categorization, database, performance, reliability, scalability, web services

31 Notes Explorer: entity-based retrieval in shared, semi-structured information spaces

Scott Huffman, Catherine Baudin

November 1996 **Proceedings of the fifth international conference on Information and knowledge management**

Full text available: pdf(951.75 KB) Additional Information: full citation, references, citings, index terms

32 A protein patent query system powered by Kleisli

Jing Chen, Limsoon Wong, Louxin Zhang

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(502.96 KB) Additional Information: full citation, references, citings, index terms

33 XML transactions: Efficient synchronization for mobile XML data
Franky Lam, Nicole Lam, Raymond Wong
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Full text available: pdf(116.31 KB) Additional Information: full citation, abstract, references, index terms

Many handheld applications receive data from a primary database server and operate in an intermittently connected environment these days. They maintain data consistency with data sources through sychronization. In certain applications such as sales force automation, it is highly desirable if updates on the data source can be reflected at the handheld applications immediately. This paper proposes an efficient method to synchronize XML data on multiple mobile devices. Each device retrieves and cac ...

Keywords: XML, information dissemination, information subscription, path containment

34 Using XML to Build Consistency Rules for Distributed Specifications
Andrea Zisman, Wolfgang Emmerich, Anthony Finkelstein
November 2000 **Proceedings of the 10th International Workshop on Software Specification and Design**
Full text available: pdf(192.21 KB) Publisher Site Additional Information: full citation, abstract

The work presented in this paper is part of a large programme of research aimed at supporting consistency management of distributed documents on the World Wide Web. We describe an approach for specifying consistency rules for distributed partial specifications with overlapping contents. The approach is based on expressing consistency rules using XML and XPointer. We present a classification for different types of consistency rules, related to various types of inconsistencies and show how to expr ...

Keywords: Inconsistency, consistency rules, XML, XPointer

35 A catalog of techniques for resolving packaging mismatch
Robert DeLine
May 1999 **Proceedings of the 1999 symposium on Software reusability**
Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

Keywords: COT and component brokers, component-based engineering, interface issues, software architecture and systemic reuse

36 Special section on sensor network technology & sensor data management (part II): An initial study of overheads of eddies
Amol Deshpande
March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1
Full text available: pdf(95.53 KB) Additional Information: full citation, abstract, references

An eddy [2] is a highly adaptive query processing operator that continuously reoptimizes a query in response to changing runtime conditions. It does this by treating query processing as *routing* of tuples through *operators* and making per-tuple routing decisions. The benefits of such adaptivity can be significant, especially in highly dynamic environments such as data streams, sensor query processing, web querying, etc. Various parties have asserted that the cost of making per-tuple ...

37 Mu3D: a causal consistency protocol for a collaborative VRML editor
Ricardo Galli, Yuhua Luo
February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

Full text available: pdf(614.28 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the implementation of the Mu3D application protocol and consistency control mechanisms to allow the collaborative editing of CAD design. The collaborative editor (M3D editor) developed by us is VRML compliant. The editor has been used as a base for the European Esprit project No. 26287 - M3D and the Spanish project TEL 96-0544/CODI for Cooperative CAD applications.In our system, only the changes to local databases are transmitted to other collaborative sessio ...

Keywords: CAD, VRML, architecture, distributed virtual environments, multicasting

38 Chimera: hypermedia for heterogeneous software development enviroments
Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead
July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

Full text available: pdf(864.32 KB) Additional Information: full citation, abstract, references, citings, index terms

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

39 Scalability and information agents
Ralph Deters
September 2001 **ACM SIGAPP Applied Computing Review**, Volume 9 Issue 3

Full text available: pdf(691.59 KB) Additional Information: full citation, abstract, references

Having fast and dependable access to the most relevant information available is of the utmost importance in a competitive information-oriented society. Ensuring transparent and dependable access to a large number of heterogeneous, ill-structured and often distributed data and information sources is a complex problem with many different facets. Over time a large variety of very different approaches have been developed. Among the many competing approaches, information agents seem to be particularl ...

Keywords: deployment, information agents, scalability

40 FieldWise: a mobile knowledge management architecture
Henrik Fagrell, Kerstin Forsberg, Johan Sanneblad
December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Full text available: pdf(470.03 KB) Additional Information: full citation, abstract, references, citings, index terms

The paper presents results of a research project that has aimed at developing a knowledge management architecture for mobile work domains. The architecture developed, called FieldWise, was based on fieldwork in two organisations and feedback from users of prototype systems. This paper describes the empirically grounded requirements of FieldWise, how these have been realised in the architecture, and how the architecture has been implemented in the news journalism domain. FieldWise adds to th ...

Keywords: hand-held devices, knowledge management, mobile CSCW, organisational memory

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41 Session 3: Stylesheet transformations for interactive visualization: towards a Web3D chemistry curricula

Nicholas F. Polys

March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available: pdf(574.50 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent Standards specifications offer important but underemployed techniques to maximize access-to and distribution-of information for real-time 3D visualization over the web. This paper describes and evaluates such techniques to transform structured data such as Chemical Markup Language (CML) to different forms and contexts for Web3D delivery using Extensible Stylesheet Transformations (XSLT), Extensible 3D (X3D), and VRML97. Standards design approaches offer a number of advantages: data durabi ...

Keywords: education, information visualization, interactive 3D graphics, molecular chemistry

42 Tools for building digital libraries: Assembling and enriching digital library collections

David Bainbridge, John Thompson, Ian H. Witten

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(576.57 KB) Additional Information: full citation, abstract, references, citings, index terms

People who create digital libraries need to gather together the raw material, add metadata as necessary, and design and build new collections. This paper sets out the requirements for these tasks and describes a new tool that supports them interactively, making it easy for users to create their own collections from electronic files of all types. The process involves selecting documents for inclusion, coming up with a suitable metadata set, assigning metadata to each document or group of document ...

43 Client-server based application in the dyalog APL environment

Alexander Balako

June 2000 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL-Berlin-2000 conference**, Volume 30 Issue 4

Full text available: pdf(677.86 KB) Additional Information: full citation, abstract, index terms

This paper is concerned with the problem of creating server-based application for the Dyalog

APL environment on the example of "Agent". The "Agent" is a new common tool for the portfolio management system SOFIA® (product of APL Italiana®), and GAMA (product of Infostroy). Briefly, "Agent" can be called as a "third arm of a customer" or an "extra user". This application executes the user-defined tasks in the system based on a specified schedule. The task is any operation (or a sequence of ...

44 A storage and access manager for ill-structured data

Jeffrey Kottemann, Michael Gordon, Jack Stott

August 1991 **Communications of the ACM**, Volume 34 Issue 8

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, index terms, review

Database management systems are powerful tools for processing large volumes of structured, or normalized, data. Much of the data to be stored in computer systems, however, differs from normalized data in both its logical uses and the storage structure required for its effective management. For instance, Van Rijsbergen (1979) distinguishes database retrieval from information retrieval (IR)—the retrieval of references to text—by c ...

45 NoDoSE—a tool for semi-automatically extracting structured and semistructured data from text documents

Brad Adelberg

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms

Often interesting structured or semistructured data is not in database systems but in HTML pages, text files, or on paper. The data in these formats is not usable by standard query processing engines and hence users need a way of extracting data from these sources into a DBMS or of writing wrappers around the sources. This paper describes NoDoSE, the Northwestern Document Structure Extractor, which is an interactive tool for semi-automatically determining the structure of such documents and ...

46 Putting integrated information in context: superimposing conceptual models with SPARCE

Sudarshan Murthy, David Maier, Lois Delcambre, Shawn Bowers

January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available: pdf(510.13 KB) Additional Information: full citation, abstract, references

A person working with diverse information sources—with possibly different formats and information models—may recognize and wish to express conceptual structures that are not explicitly present in those sources. Rather than replicate the portions of interest and recast them into a single, combined data source, we leave *base information* where it is and *superimpose* a conceptual model that is appropriate to the task at hand. This superimposed model can be distinct from the ...

Keywords: SPARCE, conceptual modelling, context, excerpts, software architecture, superimposed information

47 Decompiling CODASYL DML into retional queries

R. H. Katz, E. Wong

March 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 1

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(1.47 MB) terms

A "decompilation" algorithm is developed to transform a program written with the procedural operations of CODASYL DML into one which interacts with a relational system via a nonprocedural query specification. An Access Path Model is introduced to interpret the semantic accesses performed by the program. Data flow analysis is used to determine how FIND operations implement semantic accesses. A sequence of these is mapped into a relational query and embedded into the original prog ...

Keywords: decompilation, semantic data models

48 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

49 Managing persistent objects in a multi-level store
Michael Stonebraker
April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2
Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings, index terms

50 Interconnecting heterogeneous computer systems
David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan
March 1988 **Communications of the ACM**, Volume 31 Issue 3
Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

A software structure created by the Heterogeneous Computer Systems (HCS) Project at the University of Washington was designed to address the problems of heterogeneity that typically arise in research computing environments.

51 Indexing and retrieval of scientific literature
Steve Lawrence, Kurt Bollacker, C. Lee Giles
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**
Full text available: pdf(985.22 KB) Additional Information: full citation, abstract, references, citings, index terms

The web has greatly improved access to scientific literature. However, scientific articles on the web are largely disorganized, with research articles being spread across archive sites, institution sites, journal sites, and researcher homepages. No index covers all of the available literature, and the major web search engines typically do not index the content of Postscript/PDF documents at all. This paper discusses the creation of digital libraries of scientific literature on the web, incl ...

52 Transformations and Experiences: VXT: a visual approach to XML transformations
Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent Quint
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**
Full text available: pdf(165.99 KB) Additional Information: full citation, abstract, references, citings, index

terms

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations are textual languages, such as XSLT or DOM combined with a general-purpose programming language. Several tools build on top of these languages, providing a graphical environment. Transformations are however still specified in a textual way using ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoomable user interfaces

53 Web-based tools, systems and environments: XAHM: an adaptive hypermedia model based on XML

Mario Cannataro, Alfredo Cuzzocrea, Andrea Pugliese

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available: pdf(345.56 KB) Additional Information: full citation, abstract, references

This paper presents XAHM, a model for Adaptive Hypermedia Systems based on XML. We introduce a multidimensional approach to model different aspects of the adaptation process, which is based on three different "adaptivity dimensions": user's behavior (preferences and browsing activity), technology (network and user's terminal) and external environment (time, location, language, socio-political issues, etc.). An Adaptive Hypermedia is modeled with respect to such dimensions, and a view over it cor ...

Keywords: XML, adaptive hypermedia system, hypermedia modeling

54 Extensible file system (ELFS): an object-oriented approach to high performance file I/O

John F. Karpovich, Andrew S. Grimshaw, James C. French

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms

Scientific applications often manipulate very large sets of persistent data. Over the past decade, advances in disk storage device performance have consistently been outpaced by advances in the performance of the rest of the computer system. As a result, many scientific applications have become I/O-bound, i.e. their run-times are dominated by the time spent performing I/O operations. Consequently, the performance of I/O operations has become critical for high performance in these applicatio ...

55 Issues in implementing a real time embedded Data Base Management System in Ada

David Bunting, Leonard Bass

March 1986 **Proceedings of the third annual Washington Ada symposium on Ada: Ada use in focus : practical lessons in perspective**

Full text available: pdf(901.52 KB) Additional Information: full citation, references

56 An extended transformation approach to inductive logic programming

Nada Lavrač, Peter A. Flach

October 2001 **ACM Transactions on Computational Logic (TOCL)**, Volume 2 Issue 4

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(309.37 KB) terms, review

Inductive logic programming (ILP) is concerned with learning relational descriptions that typically have the form of logic programs. In a transformation approach, an ILP task is transformed into an equivalent learning task in a different representation formalism. Propositionalization is a particular transformation method, in which the ILP task is compiled to an attribute-value learning task. The main restriction of propositionalization methods such as LINUS is that they are unable to deal w ...

Keywords: data mining, inductive logic programming, machine learning, relational databases

57 Document Formatting Systems: Survey, Concepts, and Issues
Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Full text available: pdf(5.36 MB) Additional Information: full citation, references, citings, index terms

58 Linux Print System at Cisco Systems, Inc.
Damian Ivereigh
October 1998 **Linux Journal**
Full text available: html(40.10 KB) Additional Information: full citation, abstract, index terms

Cisco runs a redundant system of 50 print servers using Linux, Samba and Netatalk. It prints to approximately 1,600 printers worldwide, serving 10,000 UNIX and Windows 95 users, some of whom are in mission-critical environments

59 An extensible query model and its languages for a uniform behavioral object management system
Randal J. Peters, Anna Lipka, M. Tamer Özsu, Duane Szafron
December 1993 **Proceedings of the second international conference on Information and knowledge management**
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

60 POESIA: An ontological workflow approach for composing Web services in agriculture
Renato Fileto, Ling Liu, Calton Pu, Eduardo Delgado Assad, Claudia Bauzer Medeiros
November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4
Full text available: pdf(726.49 KB) Additional Information: full citation, abstract, index terms

This paper describes the POESIA approach to systematic composition of Web services. This pragmatic approach is strongly centered in the use of domain-specific multidimensional ontologies. Inspired by applications needs and founded on ontologies, workflows, and activity models, POESIA provides well-defined operations (aggregation, specialization, and instantiation) to support the composition of Web services. POESIA complements current proposals for Web services definition and composition by provi ...

Keywords: Composition of Web services, Data integration, Ontologies, Semantic Web, Semantics of data and processes

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61 Dissertation Abstracts in Computer Graphics ▬

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB) Additional Information: full citation

62 Structured programming using processes ▬

Jay Nelson

September 2004 **Proceedings of the 2004 ACM SIGPLAN workshop on Erlang**

Full text available: pdf(116.57 KB) Additional Information: full citation, abstract, references, index terms

Structured Programming techniques are applied to a personal accounting software application implemented in erlang as a demonstration of the utility of processes as design constructs. Techniques for enforcing strong encapsulation, partitioning for fault isolation and data flow instrumentation, reusing code, abstracting and adapting interfaces, simulating inputs, managing and distributing resources and creating complex application behavior are described. The concept of *inductive decomposition*

Keywords: *COPL, concurrency oriented programming language, erlang, inductive decomposition*

63 The model, language, and implementation of an object-oriented multimedia knowledge base management system ▬

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1

Full text available: pdf(3.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-establis ...

64 ▬

Animation: Building a virtual factory

Jochen Manfred Quick, Chao Zhu, Haibin Wang, Meehae Song, Wolfgang Müller-Wittig
June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia**
Full text available: pdf(332.18 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe a visualisation system which helps simulation experts transform discrete simulation models and results into animated scenes in a virtual environment. The system aims to significantly reduce production costs and error sources during the generation process of visualisations. The means to achieve these goals are the development of a framework for the translation of simulation results into animations, reuse of animation elements, and the implementation of customization too ...

Keywords: animation, simulation, virtual factory, visualisation

65 Phoneshell: the telephone as computer terminal
Chris Schmandt
September 1993 **Proceedings of the first ACM international conference on Multimedia**
Full text available: pdf(126.39 KB) ps(242.40 KB) Additional Information: full citation, references, citings, index terms

Keywords: auditory user interface, digitized speech, interactive voice response, speech synthesis

66 Interactive effectivity control: design and applications
Richard Ilson
January 2000 **Proceedings of the ACM conference on Document processing systems**
Full text available: pdf(635.81 KB) Additional Information: full citation, references, citings, index terms

67 Visualization products on-demand through the Web
Suzana Djurcilov, Alex Pang
February 1998 **Proceedings of the third symposium on Virtual reality modeling language**
Full text available: pdf(862.71 KB) Additional Information: full citation, references, citings, index terms

68 Open hypermedia and the web: Xspect: bridging open hypermedia and XLink
Bent G. Christensen, Frank Allan Hansen, Niels Olof Bouvin
May 2003 **Proceedings of the twelfth international conference on World Wide Web**
Full text available: pdf(288.32 KB) Additional Information: full citation, abstract, references, index terms

This paper evaluates the XLink format in comparison with other linking formats. The comparison is based on Xspect, an implementation of XLink. Xspect handles transformation between an open hypermedia format (OHIF) and XLink, and the paper discusses this isomorphic transformation and generalises it to include another open hypermedia format, FOHM. The Xspect system, based on XSLT and Javascript, provides users with an interface to browse and merge linkbases. Xspect supports navigational hypermedia ...

Keywords: FOHM, OHIF, SVG, XLink, XPointer, Xspect, annotations, open hypermedia

69 Multimodal user interfaces in the Open Agent Architecture

Douglas B. Moran, Adam J. Cheyer, Luc E. Julia, David L. Martin, Sangkyu Park

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**

Full text available: pdf(980.98 KB) Additional Information: full citation, references, citings, index terms

Keywords: agent architecture, gesture, handwriting, multimodal, natural language, speech

70 Neuro-fuzzy applications: Active electronic mail

S. Karnouskos, A. Vasilakos

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(532.13 KB) Additional Information: full citation, abstract, references, index terms

Network infrastructures have evolved tremendously over the last years, offering new capabilities to the applications in higher levels. Email is a widely used communication tool that could benefit of an intelligent and active underlying network in order to support sophisticated services. We explore in this paper an infrastructure based on intelligent mobile agents and active networks, and point out how and where advanced features can be introduced to our current passive email platform in order to ...

Keywords: active networks, computational intelligence, email, intelligent mobile agents

71 Articles: UbiData: requirements and architecture for ubiquitous data access

Abdelsalam Helal, Joachim Hammer

December 2004 **ACM SIGMOD Record**, Volume 33 Issue 4

Full text available: pdf(223.13 KB) Additional Information: full citation, abstract, references

Mobile users today demand ubiquitous access to their data from any mobile device and under variable connection quality. We refer to this requirement as *any-time, any-where* data access whose realization requires much more support for asynchronous and disconnected operation than is currently available from existing research prototypes or commercial products. Furthermore, the proliferation of mobile devices and applications, forges the additional requirement of device- and application-transp ...

72 A practical solution to the geospatial data barrier problem

Christian Larouche, Gilles Clément, Denis Gouin, Paul Morin

November 1997 **Proceedings of the 5th ACM international workshop on Advances in geographic information systems**

Full text available: pdf(645.72 KB) Additional Information: full citation, references, index terms

73 Computerised information retrieval systems for open learning

Barbara Allan

July 1984 **Proceedings of the 7th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(785.25 KB) Additional Information: full citation, abstract, references

The paper starts with a theoretical consideration of the requirements for a computerised information retrieval system to aid open learning within an educational establishment. The requirements for such a system include consideration of the need to fulfill information

retrieval objectives and also educational objectives. These requirements are then considered in the context of the theoretical information retrieval work which has been carried out by Belkin and others and takes into account the rep ...

74 Signature extraction for overlap detection in documents

Raphael A. Finkel, Arkady Zaslavsky, Krisztián Monostori, Heinz Schmidt

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4**, Volume 24 Issue 1

Full text available: pdf(715.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Easy access to the Web has led to increased potential for students cheating on assignments by plagiarising others' work. By the same token, Web-based tools offer the potential for instructors to check submitted assignments for signs of plagiarism. Overlap-detection tools are easy to use and accurate in plagiarism detection, so they can be an excellent deterrent to plagiarism. Documents can overlap for other reasons, too: Old documents are superseded, and authors summarize previous work identical ...

Keywords: plagiarism document overlap culling digest

75 Applying hypertext and hypermedia to scholarly journals enables both product and process innovation

Andrew E. Treloar

December 1999 **ACM Computing Surveys (CSUR)**

Full text available: pdf(23.35 KB) Additional Information: full citation, references, index terms

Keywords: electronic journals, parallel publishing, scholarly communication

76 Streaming services: Streaming media middleware is more than streaming media

Lawrence A. Rowe

October 2001 **Proceedings of the 2001 international workshop on Multimedia middleware**

Full text available: pdf(607.36 KB) Additional Information: full citation, abstract, references

Middleware for streaming media requires services other than media capture, encoding/decoding, network transmission, and presentation. Specifically most streaming media applications are distributed applications so they require the services being developed to support client/server and peer-to-peer applications. They also require multicast application services such as soft-state announce/listen protocols, reliable multicast protocols, and publish/subscribe multicast protocols. Some applications req ...

77 Next-generation generic programming and its application to sparse matrix computations

Nikolay Mateev, Keshav Pingali, Paul Stodghill, Vladimir Kotlyar

May 2000 **Proceedings of the 14th international conference on Supercomputing**

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings, index terms

The contributions of this paper are the following.We introduce a new variety of generic programming in which algorithm implementors use a different API than data structure designers, the gap between the API's being bridged by restructuring compilers. One view of this approach is that it exploits restructuring compiler technology to perform a novel kind of

template instantiation.We demonstrate the usefulness of this new generic programming technology ...

78 Special section on semantic integration: Ontologies and semantics for seamless connectivity

Michael Uschold, Michael Gruninger
December 2004 **ACM SIGMOD Record**, Volume 33 Issue 4

Full text available: pdf(311.23 KB) Additional Information: full citation, abstract, references

The goal of having networks of seamlessly connected people, software agents and IT systems remains elusive. Early integration efforts focused on connectivity at the physical and syntactic layers. Great strides were made; there are many commercial tools available, for example to assist with enterprise application integration. It is now recognized that physical and syntactic connectivity is not adequate. A variety of research systems have been developed addressing some of the semantic issues. In t ...

79 A multiplatform/multilanguage client/server project

William Shay
February 2002 **ACM SIGCSE Bulletin , Proceedings of the 33rd SIGCSE technical symposium on Computer science education**, Volume 34 Issue 1

Full text available: pdf(354.87 KB) Additional Information: full citation, abstract, references, citings

This paper introduces a more general client/server example than is typically described. Whereas many client/server examples often involve communication between two C programs or two Java programs, this paper describes a program demo containing two clients (one in C and one in Java) and two servers (one in C and one in Java). Furthermore, either client is capable of connecting to and downloading a file from either server using a socket connection over the TCP/IP protocol. None of these programs m ...

80 Multimodal interfaces for dynamic interactive maps

Sharon Oviatt
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Full text available: pdf(1.36 MB) html(45.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic interactive maps, multimodal interface design, predictive modeling, robust processing, spoken, pen-based, and multimodal input

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81 Communications design for Co-oP: a group decision support system

Tung X. Bui, Matthias Jarke

July 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 2

Full text available: pdf(1.67 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Decision Support Systems (DSSs), computer-based systems intended to assist managers in preparing and analyzing decisions, have been single-user systems for most of the past decade. Only recently has DSS research begun to study the implications of the fact that most complex managerial decisions involve multiple decision makers and analysts. A number of tools for facilitating group decisions have been proposed under the label Group Decision Support Systems (GDSSs). One of the most ...

82 Customizing information capture and access

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Full text available: pdf(1.26 MB)

utilities
Maghsoud Abbaspour, Jianwen Zhu
June 2002 **Proceedings of the 39th conference on Design automation**

Full text available: pdf(100.21 KB) Additional Information: full citation, abstract, references, citings, index terms

Since software is playing an increasingly important role in system-on-chip, retargetable compilation has been an active research area in the last few years. However, the retargetting of equally important downstream system tools, such as assemblers, linkers and debuggers, has either been ignored, or falls short of meeting the requirements of modern programming languages and operating systems. In this paper, we present techniques that can automatically retarget the GNU binutils tool kit, which con ...

85 Selling your software
Doris R. Waggoner
October 1981 **Proceedings of the 9th annual ACM SIGUCCS conference on User services**

Full text available: pdf(551.25 KB) Additional Information: full citation, abstract, references, index terms

The Academic Computing Center (MACC) at the University of Wisconsin-Madison has distributed a variety of software for several years. Early on, this distribution was casual, informal, and intended to answer whatever requests for software came our way. More recently, we have become the Sperry-Univac conversion site for SPSS, and this has forced us to systematize our methods in distributing SPSS. With this as an incentive, we have recently developed more formal procedures, and are distributing ...

86 An Integrated Web-based Grid-Computing Environment for Research and Education in Computational Science and Engineering
Thanh N. Truong
April 2004 **Proceedings of the 37th annual symposium on Simulation**

Full text available: pdf(287.40 KB) Publisher Site Additional Information: full citation, abstract

We present the development of an integratedextendable web-based simulation environment calledComputational Science and Engineering On-line (CSEO)that allows computational scientists to perform researchusing state-of-the-art tools, querying data from personalor public databases, discuss results with colleagues, andaccess resources beyond those available locally from aweb browser. It is a user-driven web-based applicationtool. Currently, CSEO provides an integratedenvironment for multi-scale model ...

87 A case study: demands on component-based development
Ivica Crnkovic, Magnus Larsson
June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available: pdf(141.06 KB) Additional Information: full citation, abstract, references, index terms

Building software systems with reusable components brings many advantages. The development becomes more efficient, the realibility of the products is enhanced, and the maintenance requirement is significantly reduced. Designing, developing and maintaining components for reuse is, however, a very complex process which places high requirements not only for the component functionality and flexibility, but also for the development organization. In this paper we discuss the different levels of c ...

Keywords: architecture, component-based development, development environment, reuse, standard components

88 An Approach to Preserving Sufficient Correctness in Open Resource Coalitions
Orna Raz, Mary Shaw
November 2000 **Proceedings of the 10th International Workshop on Software Specification and Design**
Full text available: pdf(359.58 KB) Publisher Site Additional Information: full citation, abstract

Most software that most people use most of the time needs only moderate assurance of fitness for its intended purpose. Unlike high-assurance software, where the severe consequences of failure justify substantial investment in validation, everyday software is used in settings in which occasional degraded service or even failure is tolerable. Unlike high-assurance software, which has been the subject of extensive scrutiny, everyday software has received only meager attention concerning how good it ...

Keywords: Medium-assurance software, everyday software, fitness for task, fault tolerance, open resource coalitions, sufficient correctness, software homeostasis, distributed component-based software

89 An introduction to simulation modeling
Martha A. Centeno
November 1996 **Proceedings of the 28th conference on Winter simulation**
Full text available: pdf(724.81 KB) Additional Information: full citation, references, citings

90 Transitioning to Ada in an introductory course for non-majors
A. T. Chamillard, William C. Hobart
November 1997 **Proceedings of the conference on TRI-Ada '97**
Full text available: pdf(599.58 KB) Additional Information: full citation, references, citings, index terms

91 Novel interaction modalities I: The connected user interface: realizing a personal situated navigation service
Antonio Krüger, Andreas Butz, Christian Müller, Christoph Stahl, Rainer Wasinger, Karl-Ernst Steinberg, Andreas Dirschl
January 2004 **Proceedings of the 9th international conference on Intelligent user interface**
Full text available: pdf(15.31 MB) Additional Information: full citation, abstract, references, index terms

Navigation services can be found in different situations and contexts: while connected to the web through a desktop PC, in cars, and more recently on PDAs while on foot. These services are usually well designed for their specific purpose, but fail to work in other situations. In this paper we present an approach that connects a variety of specialized user interfaces to achieve a personal navigation service spanning different situations. We describe the concepts behind the \bf BPN (BMW Personal N ...

Keywords: pedestrian navigation systems, ubiquitous interfaces

92 Digital preservation: Preservation functionality in a digital archive
Erik Oltmans, Raymond van Diessen, Hilde van Wijngaarden
June 2004

Full text available: pdf(359.08 KB) Additional Information: full citation, abstract, references, index terms

Early 2003 the digital archiving system of the National Library of the Netherlands (KB) was taken into production. This system is called the e-Depot and its technical heart is the IBM system called Digital Information Archiving System (DIAS). The *e*-Depot is built according to the recommendations in the OAIS reference model and is dedicated to the long-term storage of and access to large quantities of digital publications. To control safe storage and provide for future rendering of the dig ...

Keywords: digital preservation, electronic deposit, permanent access, technical metadata

93 An extensible compressor for XML data
Hartmut Liefke, Dan Suciu
March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1
Full text available: pdf(574.51 KB) Additional Information: full citation, citings, index terms

94 XML: not a silver bullet, but a great pipe wrench
Tommie Usdin, Tony Graham
September 1998 **StandardView**, Volume 6 Issue 3
Full text available: pdf(86.79 KB) Additional Information: full citation, index terms, review

95 Document interaction: Citrine: providing intelligent copy-and-paste
Jeffrey Stylos, Brad A. Myers, Andrew Faulring
October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology**
Full text available: pdf(236.67 KB) Additional Information: full citation, abstract, references, index terms

We present Citrine, a system that extends the widespread copy-and-paste interaction technique with intelligent transformations, making it useful in more situations. Citrine uses text parsing to find the structure in copied text and allows users to paste the structured information, which might have many pieces, in a single paste operation. For example, using Citrine, a user can copy the text of a meeting request and add it to the Outlook calendar with a single paste. In applications such as Ex ...

Keywords: copy-and-paste, intelligent user interfaces, web-pasting

96 Multimedia and visualization: Dynamic structuring of web information for access visualization
Jess Y. S. Mak, Hong Va Leong, Alvin T. S. Chan
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Full text available: pdf(765.23 KB) Additional Information: full citation, abstract, references, index terms

The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

Keywords: DOM, VRML, XML, visualization, web document structure

97 Device and library: OpenVL: the open volume library

Sarang Lakare, Arie Kaufman

July 2003 **Proceedings of the 2003 Eurographics/IEEE TVCG Workshop on Volume graphics**

Full text available: pdf(486.47 KB) Additional Information: full citation, abstract, references, index terms

OpenVL is a modular, extensible, and high performance library for handling volumetric datasets. It provides a standard, uniform, and easy to use API for accessing volumetric data. It allows the volumetric data to be laid out in different ways to optimize memory usage and speed. It supports reading/writing of volumetric data from/to files in different formats using plugins. It provides a framework for implementing various algorithms as plugins that can be easily incorporated into user application ...

98 Data typing in APL

D. Livingstone, H. Gharib

July 1989 **ACM SIGAPL APL Quote Quad , Conference proceedings on APL as a tool of thought**, Volume 19 Issue 4

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a form of data typing implemented in APL. By contrast with conventional data typing, which basically specifies a storage format for a data type, it is a means of specifying the set of logical values that a variable is to be permitted to take. To assign a data type, a new copula analogous to value-assign is used. Hence only a single new symbol is added to APL, not a whole data typing sublanguage, but the full power of APL is available to define a type.The objectives and overa ...

99 Autonomous citation matching

Steve Lawrence, C. Lee Giles, Kurt D. Bollacker

April 1999 **Proceedings of the third annual conference on Autonomous Agents**

Full text available: pdf(267.29 KB) Additional Information: full citation, references, citings, index terms

100 Text formatting by demonstration

Brad A. Myers

March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology**

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